

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/783,931B
Source: IFW16
Date Processed by STIC: 10/27/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 10/27/2005

PATENT APPLICATION: US/09/783,931B

TIME: 11:56:30

Input Set : D:\2nd Substi SEQLIST 7326-122 (as filed).TXT

Output Set: N:\CRF4\10272005\I783931B.raw

4 <110> APPLICANT: Ish-Horowicz, David
 5 Henrique , Domingos Manuel Pinto
 6 Lewis, Julian Hart
 7 Artavanis Tsakonas, Spyridon
 8 Gray, Grace
 10 <120> TITLE OF INVENTION: ANTIBODIES TO VERTEBRATE DELTA PROTEINS
 11 AND FRAGMENTS
 13 <130> FILE REFERENCE: 7326-122-999
 15 <140> CURRENT APPLICATION NUMBER: 09/783,931B
 16 <141> CURRENT FILING DATE: 2001-02-15
 18 <150> PRIOR APPLICATION NUMBER: 08/981,392
 19 <151> PRIOR FILING DATE: 1997-12-22
 21 <150> PRIOR APPLICATION NUMBER: PCT/US96/11178
 22 <151> PRIOR FILING DATE: 1996-06-28
 24 <150> PRIOR APPLICATION NUMBER: 60/000,589
 25 <151> PRIOR FILING DATE: 1995-06-28
 27 <160> NUMBER OF SEQ ID NOS: 95
 29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 2508
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Gallus gallus
 36 <220> FEATURE:
 37 <221> NAME/KEY: CDS
 38 <222> LOCATION: (277)...(2460)
 39 <223> OTHER INFORMATION: Chick Delta (C-Delta-1) gene
 41 <400> SEQUENCE: 1
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 43 atccgaaaga gctgtcagcc gccgccgggc tgcacctaaa ggcgtcggta gggggataac 120
 44 agtcagagac cctcctgaaa gcaggagacg ggacggtacc cctccggctc tgcggggcgg 180
 45 ctgcgggccc tccgttcttt cccctctccc gagagacact cttcctttcc cccacgaag 240
 46 acacaggggc aggaacgcga gcgctgcccc tccgcc atg gga ggc cgc ttc ctg 294
 47 Met Gly Gly Arg Phe Leu
 48 1 5
 50 ctg acg ctc gcc ctc ctc tcg gcg ctg ctg tgc cgc tgc cag gtt gac 342
 51 Leu Thr Leu Ala Leu Leu Ser Ala Leu Leu Cys Arg Cys Gln Val Asp
 52 10 15 20
 54 ggc tcc ggg gtg ttc gag ctg aag ctg cag gag ttt gtc aac aag aag 390
 55 Gly Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe Val Asn Lys Lys
 56 25 30 35
 58 ggg ctg ctc agc aac cgc aac tgc tgc cgg ggg ggc ggc ccc gga ggc 438
 59 Gly Leu Leu Ser Asn Arg Asn Cys Cys Arg Gly Gly Gly Pro Gly Gly
 60 40 45 50

CP9-6)

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62	gcc	ggg	cag	cag	cag	tgc	gac	tgc	aag	acc	ttc	ttc	cgc	gtc	tgc	ctg	486
63	Ala	Gly	Gln	Gln	Gln	Cys	Asp	Cys	Lys	Thr	Phe	Phe	Arg	Val	Cys	Leu	
64	55					60					65					70	
66	aag	cac	tac	cag	gcc	agc	gtc	tcc	ccc	gag	ccg	ccc	tgc	acc	tac	ggc	534
67	Lys	His	Tyr	Gln	Ala	Ser	Val	Ser	Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly	
68					75					80						85	
70	agc	gcc	atc	acc	ccc	gtc	ctc	ggc	gcc	aac	tcc	ttc	agc	gtc	ccc	gac	582
71	Ser	Ala	Ile	Thr	Pro	Val	Leu	Gly	Ala	Asn	Ser	Phe	Ser	Val	Pro	Asp	
72				90					95						100		
74	ggc	gcg	ggc	ggc	gcc	gac	ccc	gcc	ttc	agc	aac	ccc	atc	cgc	ttc	ccc	630
75	Gly	Ala	Gly	Gly	Ala	Asp	Pro	Ala	Phe	Ser	Asn	Pro	Ile	Arg	Phe	Pro	
76			105					110					115				
78	ttc	ggc	ttc	acc	tgg	ccc	ggc	acc	ttc	tgc	ctc	atc	atc	gag	gct	ctg	678
79	Phe	Gly	Phe	Thr	Trp	Pro	Gly	Thr	Phe	Ser	Leu	Ile	Ile	Glu	Ala	Leu	
80		120					125					130					
82	cac	acc	gac	tcc	ccc	gac	gac	ctc	acc	aca	gaa	aac	ccc	gag	cgc	ctc	726
83	His	Thr	Asp	Ser	Pro	Asp	Asp	Leu	Thr	Thr	Glu	Asn	Pro	Glu	Arg	Leu	
84	135					140					145					150	
86	atc	agc	cgc	ctg	gcc	acc	cag	agg	cac	ctg	gcg	gtg	ggc	gag	gag	tgg	774
87	Ile	Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu	Ala	Val	Gly	Glu	Glu	Trp	
88				155					160						165		
90	tcc	cag	gac	ctg	cac	agc	agc	ggc	cgc	acc	gac	ctc	aag	tac	tcc	tat	822
91	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Lys	Tyr	Ser	Tyr	
92				170					175						180		
94	cgc	ttt	gtg	tgt	gat	gag	cac	tac	tac	ggg	gaa	ggc	tgc	tct	gtc	ttc	870
95	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser	Val	Phe	
96			185					190					195				
98	tgc	cgg	ccc	cgt	gac	gac	cgc	ttc	ggt	cac	ttc	acc	tgt	gga	gag	cgt	918
99	Cys	Arg	Pro	Arg	Asp	Asp	Arg	Phe	Gly	His	Phe	Thr	Cys	Gly	Glu	Arg	
100		200					205						210				
102	ggc	gag	aag	gtc	tgc	aac	cca	ggc	tgg	aag	ggc	cag	tac	tgc	act	gag	966
103	Gly	Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Gln	Tyr	Cys	Thr	Glu	
104	215					220					225					230	
106	ccg	att	tgc	ttg	cct	ggg	tgt	gac	gag	cag	cac	ggc	ttc	tgc	gac	aaa	1014
107	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys	Asp	Lys	
108					235					240					245		
110	cct	ggg	gaa	tgc	aag	tgc	aga	gtg	ggt	tgg	cag	ggg	cgg	tac	tgt	gac	1062
111	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	
112				250					255					260			
114	gag	tgc	atc	cga	tac	cca	ggc	tgc	ctg	cac	ggt	acc	tgt	cag	cag	cca	1110
115	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln	Gln	Pro	
116			265					270					275				
118	tgg	cag	tgc	aac	tgc	cag	gaa	ggc	tgg	ggc	ggc	ctt	ttc	tgc	aac	cag	1158
119	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	
120		280					285					290					
122	gac	ctg	aac	tac	tgc	act	cac	cac	aag	cca	tgc	aag	aac	ggt	gcc	aca	1206
123	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly	Ala	Thr	
124	295					300					305					310	
126	tgc	acc	aac	acc	ggt	cag	ggg	agc	tac	act	tgt	tct	tgc	cga	cct	ggg	1254

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127	Cys	Thr	Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro	Gly	
128					315					320					325		
130	tac	aca	ggc	tcc	agc	tgc	gag	att	gaa	atc	aac	gaa	tgt	gat	gcc	aac	1302
131	Tyr	Thr	Gly	Ser	Ser	Cys	Glu	Ile	Glu	Ile	Asn	Glu	Cys	Asp	Ala	Asn	
132				330					335					340			
134	cct	tgc	aag	aat	ggt	gga	agc	tgc	acg	gat	ctc	gag	aac	agc	tat	tcc	1350
135	Pro	Cys	Lys	Asn	Gly	Gly	Ser	Cys	Thr	Asp	Leu	Glu	Asn	Ser	Tyr	Ser	
136			345					350					355				
138	tgt	acc	tgc	ccc	cca	ggc	ttc	tat	ggt	aaa	aac	tgt	gag	ctg	agt	gca	1398
139	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Asn	Cys	Glu	Leu	Ser	Ala	
140		360					365				370						
142	atg	act	tgt	gct	gat	gga	ccg	tgc	ttc	aat	gga	ggg	cga	tgc	act	gac	1446
143	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Thr	Asp	
144	375					380					385					390	
146	aac	cct	gat	ggt	gga	tac	agc	tgc	cgc	tgc	cca	ctg	ggt	tat	tct	ggg	1494
147	Asn	Pro	Asp	Gly	Gly	Tyr	Ser	Cys	Arg	Cys	Pro	Leu	Gly	Tyr	Ser	Gly	
148				395					400					405			
150	ttc	aac	tgt	gaa	aag	aaa	atc	gat	tac	tgc	agt	tcc	agc	cct	tgt	gct	1542
151	Phe	Asn	Cys	Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser	Ser	Ser	Pro	Cys	Ala	
152				410					415					420			
154	aat	gga	gcc	cag	tgc	gtt	gac	ctg	ggg	aac	tcc	tac	ata	tgc	cag	tgc	1590
155	Asn	Gly	Ala	Gln	Cys	Val	Asp	Leu	Gly	Asn	Ser	Tyr	Ile	Cys	Gln	Cys	
156			425					430					435				
158	cag	gct	ggc	ttc	act	ggc	agg	cac	tgt	gac	gac	aac	gtg	gac	gat	tgc	1638
159	Gln	Ala	Gly	Phe	Thr	Gly	Arg	His	Cys	Asp	Asp	Asn	Val	Asp	Asp	Cys	
160		440					445					450					
162	gcc	tcc	ttc	ccc	tgc	gtc	aat	gga	ggg	acc	tgt	cag	gat	ggg	gtc	aac	1686
163	Ala	Ser	Phe	Pro	Cys	Val	Asn	Gly	Gly	Thr	Cys	Gln	Asp	Gly	Val	Asn	
164	455					460					465					470	
166	gac	tac	tcc	tgc	acc	tgc	ccc	ccg	gga	tac	aac	ggg	aag	aac	tgc	agc	1734
167	Asp	Tyr	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Asn	Gly	Lys	Asn	Cys	Ser	
168				475					480					485			
170	acg	ccg	gtg	agc	aga	tgc	gag	cac	aac	ccc	tgc	cac	aat	ggg	gcc	acc	1782
171	Thr	Pro	Val	Ser	Arg	Cys	Glu	His	Asn	Pro	Cys	His	Asn	Gly	Ala	Thr	
172				490					495					500			
174	tgc	cac	gag	aga	agc	aac	cgc	tac	gtg	tgc	gag	tgc	gct	cgg	ggc	tac	1830
175	Cys	His	Glu	Arg	Ser	Asn	Arg	Tyr	Val	Cys	Glu	Cys	Ala	Arg	Gly	Tyr	
176			505					510					515				
178	ggc	ggc	ctc	aac	tgc	cag	ttc	ctg	ctc	ccc	gag	cca	cct	cag	ggg	ccg	1878
179	Gly	Gly	Leu	Asn	Cys	Gln	Phe	Leu	Leu	Pro	Glu	Pro	Pro	Gln	Gly	Pro	
180		520					525				530						
182	gtc	atc	gtt	gac	ttc	acc	gag	aag	tac	aca	gag	ggc	cag	aac	agc	cag	1926
183	Val	Ile	Val	Asp	Phe	Thr	Glu	Lys	Tyr	Thr	Glu	Gly	Gln	Asn	Ser	Gln	
184	535					540					545					550	
186	ttt	ccc	tgg	atc	gca	gtg	tgc	gcc	ggg	att	att	ctg	gtc	ctc	atg	ctg	1974
187	Phe	Pro	Trp	Ile	Ala	Val	Cys	Ala	Gly	Ile	Ile	Leu	Val	Leu	Met	Leu	
188				555					560					565			
190	ctg	ctg	ggt	tgc	gcc	gcc	atc	gtc	gtc	tgc	gtc	agg	ctg	aag	gtg	cag	2022
191	Leu	Leu	Gly	Cys	Ala	Ala	Ile	Val	Val	Cys	Val	Arg	Leu	Lys	Val	Gln	

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192          570          575          580
194 aag agg cac cac cag ccc gag gcc tgc agg agt gaa acg gag acc atg 2070
195 Lys Arg His His Gln Pro Glu Ala Cys Arg Ser Glu Thr Glu Thr Met
196          585          590          595
198 aac aac ctg gcg aac tgc cag cgc gag aag gac atc tcc atc agc gtc 2118
199 Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Ile Ser Val
200          600          605          610
202 atc ggt gcc act cag att aaa aac aca aat aag aaa gta gac ttt cac 2166
203 Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Val Asp Phe His
204 615          620          625          630
206 agc gat aac tcc gat aaa aac ggc tac aaa gtt aga tac cca tca gtg 2214
207 Ser Asp Asn Ser Asp Lys Asn Gly Tyr Lys Val Arg Tyr Pro Ser Val
208          635          640          645
210 gat tac aat ttg gtg cat gaa ctc aag aat gag gac tct gtg aaa gag 2262
211 Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val Lys Glu
212          650          655          660
214 gag cat ggc aaa tgc gaa gcc aag tgt gaa acg tat gat tca gag gca 2310
215 Glu His Gly Lys Cys Glu Ala Lys Cys Glu Thr Tyr Asp Ser Glu Ala
216          665          670          675
218 gaa gag aaa agc gca gta cag cta aaa agt agt gac act tct gaa aga 2358
219 Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser Glu Arg
220          680          685          690
222 aaa cgg cca gat tca gta tat tcc act tca aag gac aca aag tac cag 2406
223 Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys Tyr Gln
224 695          700          705          710
226 tcg gtg tac gtc ata tca gaa gag aaa gat gag tgc atc ata gca act 2454
227 Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Ile Ile Ala Thr
228          715          720          725
230 gag gtg taaaacagac gtgacgtggc aaagcttatc gataccgtca tcaagctt 2508
231 Glu Val
235 <210> SEQ ID NO: 2
236 <211> LENGTH: 728
237 <212> TYPE: PRT
238 <213> ORGANISM: Gallus gallus
240 <400> SEQUENCE: 2
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242 1          5          10          15
243 Cys Arg Cys Gln Val Asp Gly Ser Gly Val Phe Glu Leu Lys Leu Gln
244          20          25          30
245 Glu Phe Val Asn Lys Lys Gly Leu Leu Ser Asn Arg Asn Cys Cys Arg
246          35          40          45
247 Gly Gly Gly Pro Gly Gly Ala Gly Gln Gln Gln Cys Asp Cys Lys Thr
248          50          55          60
249 Phe Phe Arg Val Cys Leu Lys His Tyr Gln Ala Ser Val Ser Pro Glu
250 65          70          75          80
251 Pro Pro Cys Thr Tyr Gly Ser Ala Ile Thr Pro Val Leu Gly Ala Asn
252          85          90          95
253 Ser Phe Ser Val Pro Asp Gly Ala Gly Gly Ala Asp Pro Ala Phe Ser
254          100          105          110

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255	Asn	Pro	Ile	Arg	Phe	Pro	Phe	Gly	Phe	Thr	Trp	Pro	Gly	Thr	Phe	Ser
256			115					120					125			
257	Leu	Ile	Ile	Glu	Ala	Leu	His	Thr	Asp	Ser	Pro	Asp	Asp	Leu	Thr	Thr
258		130					135					140				
259	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu
260	145					150					155					160
261	Ala	Val	Gly	Glu	Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr
262					165					170					175	
263	Asp	Leu	Lys	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly
264				180					185					190		
265	Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Arg	Phe	Gly	His
266			195					200					205			
267	Phe	Thr	Cys	Gly	Glu	Arg	Gly	Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys
268		210					215					220				
269	Gly	Gln	Tyr	Cys	Thr	Glu	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln
270	225					230					235					240
271	His	Gly	Phe	Cys	Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp
272				245						250					255	
273	Gln	Gly	Arg	Tyr	Cys	Asp	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His
274				260					265					270		
275	Gly	Thr	Cys	Gln	Gln	Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly
276			275					280					285			
277	Gly	Leu	Phe	Cys	Asn	Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro
278		290					295					300				
279	Cys	Lys	Asn	Gly	Ala	Thr	Cys	Thr	Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr
280	305					310					315					320
281	Cys	Ser	Cys	Arg	Pro	Gly	Tyr	Thr	Gly	Ser	Ser	Cys	Glu	Ile	Glu	Ile
282				325						330					335	
283	Asn	Glu	Cys	Asp	Ala	Asn	Pro	Cys	Lys	Asn	Gly	Gly	Ser	Cys	Thr	Asp
284				340					345					350		
285	Leu	Glu	Asn	Ser	Tyr	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys
286			355					360					365			
287	Asn	Cys	Glu	Leu	Ser	Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn
288		370					375					380				
289	Gly	Gly	Arg	Cys	Thr	Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Ser	Cys	Arg	Cys
290	385					390					395					400
291	Pro	Leu	Gly	Tyr	Ser	Gly	Phe	Asn	Cys	Glu	Lys	Lys	Ile	Asp	Tyr	Cys
292					405					410					415	
293	Ser	Ser	Ser	Pro	Cys	Ala	Asn	Gly	Ala	Gln	Cys	Val	Asp	Leu	Gly	Asn
294				420					425					430		
295	Ser	Tyr	Ile	Cys	Gln	Cys	Gln	Ala	Gly	Phe	Thr	Gly	Arg	His	Cys	Asp
296			435					440					445			
297	Asp	Asn	Val	Asp	Asp	Cys	Ala	Ser	Phe	Pro	Cys	Val	Asn	Gly	Gly	Thr
298		450					455					460				
299	Cys	Gln	Asp	Gly	Val	Asn	Asp	Tyr	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr
300	465					470					475					480
301	Asn	Gly	Lys	Asn	Cys	Ser	Thr	Pro	Val	Ser	Arg	Cys	Glu	His	Asn	Pro
302				485						490					495	
303	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Glu	Arg	Ser	Asn	Arg	Tyr	Val	Cys

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; Xaa Pos. 4
 Seq#:16; Xaa Pos. 11,15,23,24,28
 Seq#:17; Xaa Pos. 41
 Seq#:18; Xaa Pos. 34,35,39,44,96
 Seq#:19; Xaa Pos. 1,19,23,32,33,36,43
 Seq#:23; Xaa Pos. 25,34,35,38,97
 Seq#:24; N Pos. 854,973,984,1582,1787,1819,1864,1916,1951,2033,2152,2156
 Seq#:24; N Pos. 2171,2183,2194,2212,2220,2226,2230,2244,2245,2264,2265,2266
 Seq#:24; N Pos. 2287
 Seq#:26; N Pos. 559,678,689,1287,1492,1524,1569,1621,1656,1738,1857,1861
 Seq#:26; N Pos. 1876,1888,1899,1917,1925,1931,1935,1942,1943,1952,1953,1954
 Seq#:26; N Pos. 1968
 Seq#:33; Xaa Pos. 25
 Seq#:34; Xaa Pos. 27
 Seq#:35; Xaa Pos. 166,179
 Seq#:36; Xaa Pos. 51
 Seq#:37; Xaa Pos. 28,39
 Seq#:40; Xaa Pos. 4,43,45,50,54
 Seq#:41; Xaa Pos. 5,8
 Seq#:42; Xaa Pos. 1,4,5
 Seq#:43; Xaa Pos. 226,230
 Seq#:45; Xaa Pos. 55
 Seq#:46; Xaa Pos. 47,58,73,101,128,167,168,181,187
 Seq#:47; Xaa Pos. 2,4,5,7,8,11,16
 Seq#:51; Xaa Pos. 126
 Seq#:52; Xaa Pos. 30,33
 Seq#:60; Xaa Pos. 76
 Seq#:61; Xaa Pos. 12
 Seq#:62; Xaa Pos. 4,19,36,48,75
 Seq#:63; Xaa Pos. 16,17,22,26,30
 Seq#:64; Xaa Pos. 2,6,8,10,13,14,19
 Seq#:81; N Pos. 6,12,18,21
 Seq#:82; N Pos. 3,9,12,15
 Seq#:86; N Pos. 3,9,15,18,21
 Seq#:87; N Pos. 3,6,18
 Seq#:89; N Pos. 3,15,18
 Seq#:91; N Pos. 6,9,21
 Seq#:93; N Pos. 6

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Output Set: N:\CRF4\10272005\I783931B.raw

L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
 L:1157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
 M:341 Repeated in SeqNo=16
 L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:32
 L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
 M:341 Repeated in SeqNo=18
 L:1249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
 M:341 Repeated in SeqNo=19
 L:1324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:16
 M:341 Repeated in SeqNo=23
 L:1376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:840
 M:341 Repeated in SeqNo=24
 L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:540
 M:341 Repeated in SeqNo=26
 L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:16
 L:1610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16
 L:1651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:160
 M:341 Repeated in SeqNo=35
 L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:48
 L:1703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16
 M:341 Repeated in SeqNo=37
 L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
 M:341 Repeated in SeqNo=40
 L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
 L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
 L:1843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:224
 L:1898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:48
 L:1923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:32
 M:341 Repeated in SeqNo=46
 L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
 L:2039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:112
 L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:16
 M:341 Repeated in SeqNo=52
 L:2193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:64
 L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
 L:2241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
 M:341 Repeated in SeqNo=62
 L:2272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
 M:341 Repeated in SeqNo=63
 L:2295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
 M:341 Repeated in SeqNo=64
 L:2583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
 L:2599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
 L:2645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
 L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
 L:2690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
 L:2719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
 L:2748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0